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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/092,227	03/05/2002	Richard R. Bott	GC723	8688
7590 01/29/2004			EXAMINER	
JANET KAISER CASTANEDA GENENCOR INTERNATIONAL, INC.			KERR, KATHLEEN M	
925 PAGE MI	,		ART UNIT	PAPER NUMBER
PALO ALTO, CA 94304-1013		1652		

DATE MAILED: 01/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**					
	Application No.	Applicant(s)			
	10/092,227	BOTT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kathleen M Kerr	1652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 At					
,	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.	wn from consideration.				
8) Claim(s) <u>1-18</u> are subject to restriction and/or election requirement.					
Application Papers		. •			
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domesti since a specific reference was included in the first 37 CFR 1.78.  a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domesti reference was included in the first sentence of the	s have been received. s have been received in Application rity documents have been received in Application (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(ast sentence of the specification or existence application has been received priority under 35 U.S.C. §§ 120	on No  ed in this National Stage  ed.  e) (to a provisional application)  in an Application Data Sheet.  eived.  and/or 121 since a specific			
Attachment(s)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Informal P	(PTO-413) Paper No(s) ratent Application (PTO-152)			

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### **DETAILED ACTION**

## **Application Status**

1. Claims 1-18 are pending in the instant application.

# Restriction of Species

- 2. This application contains claims directed to the following patentably distinct species of the claimed invention:
  - a) Methods of obtaining variants using crystal structures, and
  - b) Methods of obtaining variants not using crystal structures.

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1-13 generic (it is noted that Claim 5 contains, within its options, the crystal structure species). These two species are distinct because they use distinct method steps. The use of crystal structure analysis to select mutation sites is distinct from methods using, for example, alanine scanning of all cysteine residues, because the method step of selection is wholly distinct wherein one selects on the basis of a specific structure and the other selects on the basis of sequence. Thus, these species are patentably distinct.

If Applicants elect the species of using crystal structures in the methods, Claims 14-18 will be examined in the next Office action. If no prior art is found, then all Claims will be examined in the next Office action. If Applicants elect the species of not using crystal structures in the methods, Claims 1-13 (to the exclusion of using crystal structures in the methods) will be

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examined in the next Office action. If no prior art is found, then all Claims will be examined in the next Office action.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103(a) of the other invention.

### Election of Species

3. Applicant is advised that the reply to this requirement to be complete must include an election of the species to be examined even though the requirement be traversed (37 C.F.R. § 1.143).

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(i).

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#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathleen M Kerr whose telephone number is (571) 272-0931. The examiner can normally be reached on Monday through Friday, from 9:00am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathupura Achutamurthy can be reached on (571) 272-0928. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Kathleen M Kerr

Examiner

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